

L 124-65 FWT(d)/J/PWP(1) LJP(e)

ACCESSION NR: AP500577B

5/0043/65/000/001/0054/0065

AUTHOR: Khusu, A. P.

TITLE: Estimation of parameters of random sequences in an unknown coordinate system

SOURCE: Leningrad. Universitet. Vestnik. Seriya matematiki, mekhaniki i astronomii, no. 1, 1965, 54-65

TOPIC TAGS: statistical analysis, random process, Markov process

ABSTRACT: Suppose a system of points M_t is given in a plane, and it is known that they are made over equal intervals of observation on a stationary sequence of independent random variables $\eta_1 = \eta(t_1)$, normally distributed with zero mean and variance σ^2 . The abscissa t is unknown. It is required to estimate, according to the observed realization, the variance σ^2 of the sequence, the length T of the interval of observation, and the position of the abscissa of the stationary system. In the independent case, the author gets unbiased consistent estimates, while in the Markovian case he obtains asymptotically unbiased, consistent estimates. "In conclusion the author extends his thanks to O. V. Shalayevskiy for his discussion of this work." Orig. art. had 2 tables and 21 formulas.
Card 1/2

L 29124-65

ACCESSION NR: AP5005778

ASSOCIATION: none

SUBMITTED: 040-163

NO REF SOV: 005

ENCL: 00

OTHER: 002

SUB CODE: MA

Card 2/2

KHUSUNDINOVA, F.

Rewards to collective farm builders. Sel'.stroil.11 no.3:13 Mr '56.
(MLRA 9:7)

1. Brigadir stroitel'noy brigady kolkhoza imeni Vakhiteva, Pestrechinskogo rayona, Tatarskoy ASSR.
(Construction workers)

KHUTAREV, D.D.

Automatic conditioning unit used in workrooms. Izv. vys. ucheb.
zav.; tekhn. tekst. prom. no. 3:131-132 '58. (MIRA 11:7)

1. Moskovskiy tekstil'nyy institut.
(Textile fabrics--Testing)
(Air conditioning)

KHUTAYEV, D.D.; KRAMORSKIY, I.P.

Tricostate fibers as raw material for the textile industry.
Izv. v/s. ucheb. zav.; tekhn. tekhn. prom. no. 3:164-167 '64.
(MIRA 17:10)
1. Moskovskiy tekstil'nyy institut i Vladimirovskiy mashinno-
issledovatel'skiy institut sinteticheskikh voln.

VOIKOVA, N.S.; KHUTAREVA, G.V.; KRENTSEL', B.A.; POGOVIN, Z.A.;
TOPCHIEV, A.V.

Synthesis and study of stereoregular propylene - isoprene
copolymers. Vysokom.sped. 1 no.12:1758-1763 D '59.
(MIRA 13:5)

1. Moskovskiy tekstil'nyy institut i Institut neftekhimicheskogo
sintez AN SSSR.
(Propene) (Isoprene)

L 48978-65 EWG(j)/ENT(m)EPP(c)/EPP(n)-2/EWP(j)/T/EWA(n)/EWA(1) PC-4/PT-4/PAB/A-4
GG/RM

ACCESSION NR: AP5002591

UR/0062/85/000/003/0520/0525

AUTHOR: Khutareva, G. V., Shishkina, M. V., Davydov, B. E.

TITLE: Polymerization of salts of propiolic acid

SOURCE: AN SSSR. Izvestiya Seriya khimicheskaya, no. 3, 1965, 520-525

TOPIC TAGS: propiolic acid polymer, unsaturated carboxyl acid, acetylene polymerization, metal polypropiolate, radiation polymerization 19

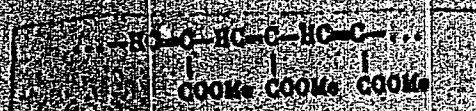
ABSTRACT: The authors studied the solid-phase radiation-induced polymerization of certain salts of propiolic acids formed by univalent and divalent metals. The polymerization of propiolates formed by ammonia, hydrazine, butylamine, and dicyclohexylamine was also carried out. X-ray structural analysis revealed that in all cases, the polymerization was accompanied by a breakdown of the crystal lattice of the monomer. Hence, the tendency of the various salts toward polymerization depends on the stability of this lattice, the stability in turn being determined by the radius and valence of the cation. As a rule, the total yield of the polymer was substantially higher in the polymerization of propiolates of divalent metals than in the case of univalent metals. The barium and cadmium salts polymerized almost quantitatively at suitable integral doses. Polymerization induced by gamma rays is accompanied by radiolysis, the amount of radiolysis products being no

Card 1/3

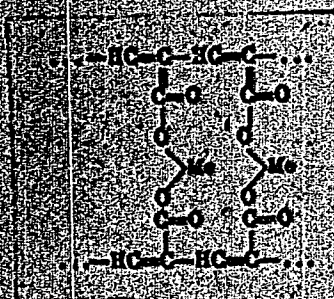
LC 48978-65

ACCESSION NR: AP6000661

higher than 1 to 1.5%. The following structures for the polypropiolates of univalent metals (I) and divalent metals (II) were proposed:



and



Card 2/3

L 48978-65

ACCESSION NR: AP5009661

Orig. art. has: 4 figures, 3 tables, and 2 formulas.

ASSOCIATION: Institut neftekhimicheskogo sinteza im. A. V. Topchiyeva Akademii nauk
SSSR (Institute of Petrochemical Synthesis, Academy of Sciences., USSR)

SUBMITTED: 12Jun64

ENCL: 00

SUB CODE: 00, 00

NO REF SOV: 001

OTHER: 001

Card

3/3

L 27400-65 EMT(m)/EPP(c)/EPP(n)-2/ENG(m)/EPR/EMP(j)/T Pc-Li/Pr-Li/Ps-Li/Pu-Li

RPL RWH/WN/GG/RM

ACCESSION NR: AF5006082

S/0204/65/005/001/0090/0096

AUTHOR: Khutareva, G. V.; Krentsel', B. A.; Shishkina, M. V.; Davydov, B. E.

TITLE: Polymerisation of acetylenecarboxylic acid in the liquid and solid phases

SOURCE: Neftekhimiya, v. 5, no. 1, 1965, 90-96

TOPIC TAGS: acetylenecarboxylic acid, polymerization, radiation induced polymerization, organic semiconductor, semiconducting polymer

ABSTRACT: A study has been made of the thermal, photo, and radiation-induced polymerization of acetylenecarboxylic acid in the liquid or solid phase, or in solution.



The effect of polymerization conditions on the occurrence of the side reactions of dehydration and decarboxylation was determined. It was found that radiation-induced polymerization is a good preparative method whereby side reactions are mini-

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L 27400-65

ACCESSION NR: AF5006082

3
mized. In radiation-induced polymerization, the product is a dark solid, soluble in water, ethanol, and acetone up to degrees of conversion of the order of 33%. It is radiation resistant, but it is decarboxylated to form insoluble products by light in aqueous media and by heat. The polymer gives an EPR signal and is a high-ohmic semiconductor ($\rho_{20} = 0.5 \times 10^{-12} \text{ ohm}^{-1} \text{ cm}^{-2}$). This work was done in view of the interest in a polymer which combines the properties of a conjugated system and those of a stiff-backbone polymeric electrolyte and which can be chemically modified. Orig. art. has: 5 figures, 2 tables, and 1 formula. [SM]

ASSOCIATION: Institut khimicheskogo sinteza im. A. V. Topchiyeva AN SSSR
(Institute of Petrochemical Synthesis, AN SSSR)

SUBMITTED: 26Jun64

ENCLOSURE: 00

SUB CODE: 00, G0

NO REF SOV: 000

OTHER: 003

ATD PRESS: 3192

Card 2/2

L 29134-65 EPA(s)-2/ENT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4/Pt-10 RM
B/0020/65/160/003/0650/0653
ACCESSION NR: AP5005899

AUTHOR: Davydov, B. E.; Zakharyan, R. Z.; Karpacheva, G. P.; Krentsel', B. A.;
Lapitskiy, G. A.; Khutareva, G. V.

TITLE: Impairment of coplanarity and conjugation in crystallizing polymers

SOURCE: AN SSSR. Doklady, v. 160, no. 3, 1965, 650-653

TOPIC TAGS: crystallization, conjugation, conjugated polymer, organic semiconductor,
semiconducting polymer, coplanarity

ABSTRACT: A study has been made to determine to what extent crystallization gives rise to conjugation disruption due to impairment of coplanarity in conjugated polymers in the solid phase, and how it affects their optical, paramagnetic, and semiconducting properties. These properties were compared for 32 polyazines and polymeric Schiff bases. It was found that the properties which are typical of conjugated polymers are exhibited to a greater extent by amorphous than by crystalline polymers. Thus, in color, in IR spectra, and in the absence of EPR, crystalline polyazines are similar to their analogs containing O, S, CH₃, or OCH₃ groups between conjugated segments in the backbone. A similar correlation, but less marked, was in evidence for the polymeric Schiff bases. This effect of crystallinity on con-

Card 1/2

L 29134-65

ACCESSION NR: AP5005099

jugated-polymer properties was attributed to the impairment of coplanarity during crystallization. In thermal stability and activation energy for conduction, however, the crystalline polymers were closer to the amorphous ones. The effect of crystallinity on semiconducting properties was interpreted as being determined in each individual case by changes in activation energy due to two competing processes occurring on crystallization: an increase in carrier mobility and a decrease in carrier concentration. Orig. art. has: 1 table. [SM]

ASSOCIATION: Institut neftekhimicheskogo sinteza imeni A. V. Topchiyeva Akademii nauk SSSR (Institute of Petrochemical Synthesis, Academy of Sciences, SSSR)

SUBMITTED: 30Jun64

ENCL: 00

SUB CODE: SS, oc

NO REF SOV: 000

OTHER: 000

ATD PRESS: S197

Card 2/2

L 38561-65 ENT(m)/ENT(o)/EPH/EMP(j)/T/ENA(o) Po-L/Pr-L/Pa-L/Pi-L RPL
RWH/RN/RM

ACCESSION NR: AP5010171

UR/0020/65/161/002/0399/0402

AUTHOR: Khutareva, G. V.; Briz, G. P.; Davydov, B. E.; Krentsel', B. A.;
Krasnovskiy, A. A. (Corresponding member AN SSSR)

TITLE: Photosensitizing properties of polyconjugated organic polymers

SOURCE: AN SSSR. Doklady, v. 161, no. 2, 1965, 399-402

TOPIC TAGS: photosensitization, conjugated double bond system, polyconjugated polymer, ascorbic acid, oxidation, polyacronitrile, Schiff's base, polynitrile, polyquinoline

ABSTRACT: This study investigates the photosensitizing effect of polymers with a system of conjugated double bonds on the oxidation of ascorbic acid. The study was prompted by the fact that photosensitization was established for some crystalline organic dyes and phthalocyanines (semiconducting substances with conjugated bonds). The Warburg-Barcroft micromanometric method was applied to trace the kinetics of the reaction. The reaction was conducted in aqueous ascorbic acid solution in the presence of finely powdered polymers under red light (wavelength more than 600 mμ), white light of an incandescent bulb, or UV light (mercury 365-mμ band). The following polymers were used: thermally treated polyacronitrile, heat-polymerized

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ACCESSION NR: AP5010171

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quinoline, polypropionic acid, polymeric Schiff's bases, polyazines and polynitriles. All of these polymers were insoluble, colored solids with absorption maxima in UV and were p-type semiconductors in the air. They could be divided into two groups with respect to their catalytic effect on the oxidation of ascorbic acid: 1) photosensitizing polymers, such as heat-treated polyacrylonitrile, polyquinolines, polypropionic acid, and poly-Schiff's bases, all of which promoted the photooxidation of ascorbic acid, which is not oxidized without catalyst; 2) catalysts in the dark: polynitriles and paracyanogen, the catalytic effect of which in general was inhibited by illumination in the sequence UV light > white light > red light. The following observations were made on the photosensitizing effect of the heat-treated polyacrylonitrile: 1) the presence of carbonized structures was not essential for the effect, since one of the most carbonized specimens displayed a very weak photosensitizing effect in the UV light and none under the white light; 2) the presence or absence of cross links was of no special influence, since polyacrylonitrile, heat treated in solution (which precluded the formation of cross links), displayed a rather high photosensitizing effect. Further investigation of the mechanism of the effect is being continued. Orig. art. has: 2 figures and 4 tables. [BM]

ASSOCIATION: Institut nertekhimicheskogo s'edineniya, A. V. Topchiyeva (Institute of Petrochemical Synthesis); Institut Bikhimii, Ia. A. N. Bakha Akademiia nauk (Institute of Biochemistry, Academy of Sciences)

Cont 2/3

L 38563-65		
ACCESSION NR: AF5010171		
SUBMITTED: 21Oct64	ENCL: 00	SUB CODE: 00, 0P
NO REF ROW: 006	OTHER: 000	ATD PRESS: 325
CL Card 3/3		

KHUTARSKAYA, Ye. S.

GINZBURG, Yevgeniy Grigor'yevich; SHUKHAL'TER, L.Ya., redaktor;
KHUTARSKAYA Ye.S., redaktor; MIKHAYLOVA, V.V., tekhnicheskiy
~~redaktor~~

[Technical norms at non-ferrous metallurgy plants] Tekhni-
cheskoe normirovanie na zavodakh tsvetnoi metallurgii.
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry, po chernoi i
tsvetnoi metallurgii, 1955. 158 p. (MLBA 8:10)
(Nonferrous metal industries)

KHUTCHENKO, M.P.

Operation of the control and inspection department of a tele-
communication enterprises with unpaid personnel. Vest. sviazi
24 no.10:29 0 '64. (MIRA 17:12)

ADRIANOVA, L.N.; KHUTELIONOK, N.L.; CHUDNOVSKIY, N.L.

Some characteristics of the mass-produced 53LK4Ts color
television kinescope. Sbor. mat. po elektrovak. tekhn. no.28:
56-60 '61. (MIRA 16:8)

S/146/62/005/005/016/016
D201/D308

AUTHORS: Aksenov, B. N. and Khutin, V. A.

TITLE: II All-Union Conference on Bionics

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostro-
yeniye, v. 5, no. 5, 1962, 140-147

TEXT: A report on the II All-Union Conference on Bionics held at Leningrad from the 24th to the 28th April 1962. The Conference was organized by the following institutions: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A. S. Popova (Scientific and Technical Society of Radio Engineering and Electrical Communications im. A. S. Popov); Ministerstvo zdravokhraneniya SSSR (Ministry of Health of USSR); Vsesoyuznyy nauchnyy sovet po radiofizike i radiotekhnike AN SSSR (All-Union Radio Physics and Radio Engineering Committee of the AS USSR); Gosudarstvennyy komitet sovet Ministrov SSSR radioelektronike (Radioelectronics State Committee of the Soviet of Ministers of the USSR); and Akademiya meditsinskikh nauk SSSR (Academy of Medicinal Sciences of USSR).

Card 1/2

II All-Union Conference ...

S/146/62/005/005/016/016
D201/D308

There were 1010 members. Eleven papers were read at 4 general sessions and 102 at meetings of 10 sections as follows: 1. Electronic methods of study of physiological functions. 2. The effect of electromagnetic fields on live tissue. 3. Ultrasonics in medicine and biology. 4. Radiotelemetry. 5. Medicinal cybernetics and simulation. 6. Electronic methods of stimulation. 7. Television in biology and medicine. 8. Electronic instruments for analysis with isotopes in physiology. 9. Electronics in laboratory analysis. 10. Short information on new instruments. Besides the above meetings a symposium with 8 papers was held on reflexometry. 170 new electronic instruments were exhibited during the conference.

Card 2/2

POPOV, B., kapitan; ~~KHUTKO, I.~~, mladshiy serzhan

Luminous indicator of hits. Voen. vest. 42 no.7:117 J1 '62.
(MIRA 15:6)
(Shooting, Military--Equipment and supplies)

KHUTKOVSKIY, O.V., inzh.

Calculation of ventilation systems from the viewpoint of
noiselessness of the air exhausting devices. Vod. 1 san.
tekh. no.8:8-11 Ah '65.

(MIRA 18:12)

KHUTKOVSKIY, O.V., inzh.

Method for calculating the inlet devices of the air-heating
systems of standard residential houses. Vod. i san. tekhn. no.3:
28-31 '64 (MIRA 18:2)

KHUTKOVSKIY, O.V., inzh.; SORKIN, I.N., inzh.

Experiment in using pozzolanic gypsum cement pipes in the
ventilation and air heating systems. Vol. 1 ser. Tekh.
no. 6:18-19 Je '65. (MIRA 18:8)

KHUTNAYA

CZECHOSLOVAKIA / General Biology - Individual Develop- B
ment.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 38036.

Author : ~~Khutnaya~~
Inst : Not given.
Title : Mechanism of Homotransplantate Destruction.

Orig Pub: Ceskosl. biol., 1956, 5, No 5, 286-295.

Abstract: No abstract.

Card 1/1

16

L 18728-63 EWT(1)/EWP(q)/EWT(m)/BDS/EED-2/ES(s)-2 AFFTC/ASD/ESD-3/SSD
Pt-4 JD/JG

ACCESSION NR: AP3004603

S/0126/63/016/001/0132/0133 73

AUTHOR: Khutny*, Pavel 72

TITLE: Permanent magnets made of Ba-Sr ferrite

SOURCE: Fizika metallov i metallovedeniye, v. 16, no. 1, 1963, 132-133

TOPIC TAGS: Ba-Sr ferrite, magnet, magnetic property

ABSTRACT: The magnetic properties of the ferrite ($\text{Ba}_{0.75}\text{Sr}_{0.25}$) $0.6 \text{ Fe}_2\text{O}_3$ were studied. In order to determine the effect of various factors on the properties of magnets, the test specimens were prepared from commercial and from pure materials. The powders were prepared by dry and wet grinding. They were sintered at 1100C for 3 hrs. Magnets 25 mm in diameter and 10 mm long were formed under pressures of 1, 2 and 4 T/cm²; those of 7.5 mm in diameter and 5 mm long--under 17 T/cm². They were sintered at 1150, 1200, 1250 and 1300C. Their magnetic properties and densities were determined and the results were tabulated. It was established that the residual induction (B_r) and maximum magnetic energy (BH)_{max}

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L 18728-63

ACCESSION NR: AP3004603

of isotropic magnets ($\text{Ba}_{0.75}\text{Sr}_{0.25}\text{O} \cdot 0.6\text{Fe}_2\text{O}_3$) do not differ essentially from those of barium ferrite magnets. The ferrites containing Sr (formed under the pressure of 17 T/cm^2) showed increased values of B_r and $(BH)_{\text{max}}$. This was explained by the fact that such magnets are anisotropic to a certain degree. The presence of Sr did not improve caking. The density of magnets with Sr was lower than that of magnets free from Sr. Orig. art. has: 1 table and 2 figures.

ASSOCIATION: Pol'skaya narodnaya respublika zavod magnitny*kh materialov "pol'fer", g. Varshava (Republic of Poland, "Pol'fer" Plant of Magnetic Materials, Warsaw)

SUBMITTED: 23Feb63

DATE ACQ: 27Aug63

ENCL: 00

SUB CODE: ML

NO REF SOV: 001

OTHER: 002

Card 2/2

KHUTORANSKIY, M.D. (Chelyabinsk); BOGATSKAYA, T.V. (Chelyabinsk)

Health Day in winter. Zdorov'e 9 no.3:20 Mr '63.

(MIRA 16:5)

(CHELYABINSK—PUBLIC HEALTH)

GRANATMAN, Vsevolod Vladimirovich; KHUTORENKO, I.A., red.

[Logic elements using cold-cathode tubes] Logicheskie elementy na lampakh s kholodnym katodom. Leningrad, 1964.

23 p.

(MIRA 17:9)

KHUTORENKO, V.I.; SKLYAZHENKO, Ye.A.

Automating service stations. Transp. i khran.nefti i efteprod.
no. 3:18-23 '64. (MHA 17:5)

1. Irkutskoye upravleniye Glavnogo upravleniya po trnasportu i
snabzheniyu nef't'yu i nefteproduktami RSFSR.

1.10.12-417 P(1)/M(1) RM
ACC NO: A-7003117

DOUGLAS CODE: 01/03/79/66/036/001/1347/1348

CHLOPODOV, Yu. G., KHUTOSETSKAYA, Ye. I.

URL: none

"Reaction of Phosphorus Oxychloride with Ethyl Thiolchloroacetate in the Presence of Triethylamine"

Moscow, Zhurnal Obshchey Khimii, Vol 36, No 7, 1966, pp 1347-1348

TOPIC TAGS: organic phosphorus compound, vinyl compound, ester

Abstract: Like aldehydes and ketones, alkylthiolchloroacetates can react with chlorides of phosphorus acids in the presence of organic bases to form substituted vinyl esters. Phosphorus oxychloride reacts with ethylthiolmonochloroacetate in the presence of triethylamine, to form the hitherto unknown compound alpha-ethylmercapto-beta-chloro-vinyl dichlorophosphate. The latter reacts with alcohol, to give the O,O-diethyl-O-alpha-ethylmercapto-beta-chlorovinyl phosphate. [JPRS: 38,970]

SUB CODE: 07 / SUBM DATE: 05Oct65 / ORIG REF: 003

Card 1/1

UDC: 547.26'118

KHUTORETSKIY, A.B.

Recursive Isomorphisms. Alg. 1 log. 4 no. 3:85-88 '65.

(MIRA 18:10)

IPATOV, P.M.; KHUTORETSKIY, G.M.

Ratings of hydrogenerators. Elektrosila no.14:24-27 '56.
(Electric generators) (MIRA 12:12)

KHUTORETSKIY, G.M.

IPATOV, P.M., inzh.; KHUTORETSKIY, G.M., inzh.

Rated voltage of high capacity generators. Vest.elektroprom. 28
no.8:14-17 Ag '57. (MIRA 10:10)

1.Zavod "Elektrosila."

(Electric generators)

VARTAN'YAN, G.P.; ~~KHUTOBETSKIY, G.M.~~

First Soviet-made 200 mw-capacity turbogenerators. Biul.tekh.-
ekon.inform. no.11:38-40 ' 58. (MIRA 11:12)
(Turbogenerators)

YEZOVIT, G.P.; KHUTORETSKIY, G.M.

Rotor with direct multijet cooling. Elektrosila no.19:9-15 '60.
(MIRA 15:2)
(Turbogenerators--Cooling)

KHUTORETSKIY, G.M., inzh.; BOGUSLAVSKIY, I.Z., inzh.

Magnetic design of the saturated teeth of a turbogenerator.
Vest. elektroprom. 32 no.5:41-43 My '61. (MIRA 15:5)
(Turbogenerators)

KHUTORETSKIY, Garii Mikhaylovich, assistant; BOGUSLAVSKIY, Il'ya Zelikovich,
starshiy inzhener

Additional losses in the hollow conductors of the stator windings
of a turbogenerator. Izv. vys. uch. zav.; elektromekh. 5
no.8:923-927 '62. (MIRA 15:8)

1. Leningradskiy politekhnicheskii institut (for Khutoretskiy).
2. Leningradskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta elektromekhaniki pri zavode "Elektrosila" (for
Boguslavskiy).

(Turbogenerators--Windings)

KHUTORETSKIY, G.M., inzh.; SOROKINA, A.A., inzh.; SHALYT, L.D., inzh.;
KARPENKO, V.P., inzh.

Varying magnetic fields in inductor machines. Vest.elektroprom.
33 no.4:21-26 Ap '62. (MIRA 15:4)
(Electric machinery, Synchronous)

GUVERICH, E.I., inzh.; FILIPPOV, I.F., inzh.; KHUTORETSKIY, G.M., inzh.

Analysis of temperature distribution in turbogenerator rotors
with multijet cooling systems. Vest. elektroprom 34 no.6:5-8
Je '63. (MIRA 16:7)

(Turbogenerators)

KHUTORETSKIY, G.M.

Special features in using cold-rolled electrical steel in
turbogenerators. Elektrosila no.22:23-25 '63. (MIRA 17:1)

KHUTORETSKIY, G.M.; Primala uchastiye ZAGORODNAYA, G.A., inzh.;
VOL'DEK, A.I., doktor tekhn. nauk, red.

[Design of modern two-pole turbogenerators; manual for the
preparation of a course and diploma project] Proektirovanie
i raschet sovremennykh dvukhpoliusnykh turbogeneratorov;
uchebnoe posobie k kursovomu i diplomnomu proektirovaniu.
Leningrad, Leningr. politekhn. in-t, 1962. 150 p.
(MIRA 17:4)

KHUTORETSKIY, G. M.

U 20775-65 AFNL/SSD/ASD(a)-5/BSO/AFMD(p)/AFETP/AFTC(b)/BAEM(d)/ESS(dp)

ACCESSION NR: AP5003791

S/0144/64/000/009/1066/1081

AUTHOR: Boguslavskiy, I. Z.; Goncharenko, R. B.; Dombrovskiy, V. V.; Kogan, V. V.;
Sivkov, A. P.; Sibel'nikov, A. V.; Khutoretskiy, G. M.

TITLE: Use of electronic digital computer "Minsk-I" for practical design of electrical machines

SOURCE: IVUZ. Elektromekhanika, no. 9, 1964, 1066-1081

TOPIC TAGS: computer calculation, electric equipment digital computer/Minsk-1 computer

Abstract: The authors discuss the use of digital computers for the design of specialized machines which are produced in small numbers and which cannot be computed using standardized programs. The most difficult problems are encountered when designing machines utilizing new cooling systems and materials and machines operating at high specific loads. The article contains detailed discussion of five projects solved at the Laboratory for Numerical Calculation Devices of the Leningrad Affiliate of the All-Union Scientific-Research Institute of Electrical Machines during the 1962-1963 period: 1) the calculation of the starting characteristics of synchronous motors with large rotors; 2) the checked calculation of electrical circuitry of hydrogenerators; 3) the exact magnetic calculation of teeth

Orig. art. has: 7 figures, 19 formulas.

Cord^{1/2}

L 20775-65
ACCESSION NR: AP500j791

of electric machines; 4) the calculation of transient processes in synchronous and asynchronous machines; and 5) the calculation of forced oscillations of turbogenerator rotors.

ASSOCIATION: none

SUBMITTED: 08 May 64

ENCL: 00

SUB CODE: DP, EE

NO REF SOV: 000

OTHER: 000

JPRS

Card 2/2

KHUTORETSKIY, G.M., inzh.; KHAZAN, A.N., kand. tekhn. nauk

Short-term nonbalanced modes of turbogenerators without rotor
damper windings. Elektrotehnika 35 no.9:14-17 S '64.
(MIRA 17:11)

BOGUSLAVSKIY, Il'ya Zelikovich, aspirant; GONCHARENKO, Robert Borisovich, kand. tekhn. nauk, nauchnyy sotrudnik; DOMBROVSKIY, Vyacheslav Vyacheslavovich, kand. tekhn. nauk, starshiy nauchnyy sotrudnik; KOGAN, Valentina Veniaminovna, inzh.; SIVKOV, Arkadiy Petrovich; SIDEL'NIKOV, Aleksandr Viktorovich, aspirant; KHUTORETSKIY, Garri Mikhaylovich

Use of the "Minsk-1" digital computer in practical calculations of electrical machines. Izv. vys. ucheb. zav.; elektromekh. 7 no.9:1066-1081 '64. (MIRA 18:1)

1. Starshiy inzh. otdela turbogeneratorov LEO "Elektrosila"; Severo-Zapadnyy politekhnicheskii institut (for Boguslavskiy).
2. Kafedra elektricheskikh mashin Leningradskogo instituta aviatsionnogo priborostroyeniya (for Goncharenko).
3. Otdel gidrogeneratorov LEO "Elektrosila" (for Dombrovskiy).
4. Byuro obshchikh raschetov LEO "Elektrosila" (for Kogan).
5. Nachal'nik laboratorii schetnoreshayushchikh ustroystv Leningradskogo filiala Vsesoyuznogo nauchno-issledovatel'skogo instituta elektromekhaniki (for Sivkov).
6. Institut elektromekhaniki Gosudarstvennogo komiteta po elektrotekhnike (for Sidel'nikov).
7. Vedushchiy konstruktor otdela turbogeneratorov LEO "Elektrosila" (for Khutoretskiy).

SAVEL'YEV, V.P.; KOVAL'SKAYA, A.V.; BERUKOV, F.V.; GALKIN, Yu.P.; KROKHOTIN,
A.I.; SINEGUBKIN, V.V.; EPSHTEYN, A.L.; TSIRKIN, M.Z.; LAVRUSHINA, N.S.;
GUMBADEV, A.A.; KONTOROVICH, L.M.; KOROLEV, V.N.; USTIMENKO, I.L.;
KURNAKOV, S.N.; POLUSHKIN, M.K.; LIBE, N.A.; IVANOV, N.P.; D'YACHENKO,
G.I.; FILIPPOV, I.F.; KHUTORETSKIY, G.M.; VARTAN'YAN, G.P.; RUSOV, Ye.Kh.;
BARKAN, L.Z.; KOLONEKAYA, L.M.; CORBATENKO, F.I.

Inventions. Energ. i elektrotekh. prom. no.4:39 C-D '62.

(MIRA 18:3)

L 9662-66 ENT(1)/ETC/EWG(m)/EWA(h) TT/AT

ACC NR: AP5026504

SOURCE CODE: UR/0286/65/000/019/0035/0035

AUTHORS: D'yachenko, G. I.; Khutoretskiy, G. M.; Smirnov, G. K.; Shalyt, L. D.

ORG: none

TITLE: Multiphase unlike-pole inductor generator. ²⁵ Class 21, No. 175114

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 35

TOPIC TAGS: electric generator, electric rotating equipment

ABSTRACT: This Author Certificate presents a multiphase unlike-pole inductor generator with a distributed stator winding and with the number of stator teeth equal to twice the number of rotor teeth (see Fig. 1). To simplify fabrication,



Fig. 1. 1 - Stator teeth;
2 - rotor teeth; 3 - pole;
4 - phase winding.

Card 1/2

UDC: 621.313.39

L 9662-66

ACC NR: AP5026504

the winding of each phase is located on one pole whose teeth are shifted along the circumference relative to the teeth of the adjacent poles by an angle of $2\pi/P$, where P is the number of poles. Orig. art. has: 1 diagram.

SUB CODE: 09/

SUBM DATE: 27Jun63

Card 2/2

ACCESSION NR: AP4022720

S/0020/64/155/002/0379/0380

AUTHOR: Khutoretskiy, V. M.; Shpanskiy, V. A.

TITLE: The reactivity of noble gases. A new method of producing $X_e F_2$

SOURCE: AN SSSR. Doklady*, v. 155, no. 2, 1964, 379-380

TOPIC TAGS: Xenon fluoride, xenon octafluoride, hexafluoride, tetrafluoride, synthetic sapphire, microwave pulse, vacuum ultraviolet, platinum hexafluoride, krypton, back titration, xenon ionization, noble gas, noble gas reaction capability;

ABSTRACT: "Inert" gases were developed in recent experiments by synthesizing a number of xenon fluorides under fairly severe conditions. Thus, xenon octafluoride was produced by heating a mixture of $Xe:F_2 = 1:10$ under pressure of 81 atmospheres to a temperature of $620^\circ C$. Similar methods were used to produce hexafluoride and tetrafluoride, but difluoride was produced by an ultraviolet irradiation of a xenon-fluorine mixture circulating through a vessel equipped with a synthetic sapphire window. Since all these methods involve great experimental difficulties, the authors believe that the use of such severe conditions is not necessary. This belief is supported by the formation of $XePtF_6$ under ordinary temperature by the method of combining xenon with platinum hexafluoride. A recent

Card 1/2

ACCESSION NR: AP4022720

publication (W. M. Kornegay, H. S. Johnston, J. of Chem. Phys., 38, No. 9, 2242, 1963) reports a considerably lower ionization potential of xenon (about 8 ev instead of 12.1) and krypton (about 10 ev instead of 14) than had been assumed earlier. There is another method of producing xenon difluoride which is extremely simple and requires no special apparatus. The high reactivity of xenon also encourages the hope for success in attempts to synthesize XeCl_2 , XeO , KrF_2 , etc.

under considerably milder conditions than heretofore.

Orig. art. has: no graphics

ASSOCIATION: AN SSSR

SUBMITTED: 15Nov63

DATE ACQ: 08Apr64

ENCL: 00

SUB CODE: CH

NO. REF SOV: 000

OTHER: 012

Card 2/2

L 21981-66 EWA(h)/EWT(1) GG

ACC NR: AP6007869

SOURCE CODE: UR/0103/66/000/002/0129/0133

AUTHOR: Kunitskiy, N. P. (Moscow); Khutoretskiy, V. M. (Moscow)

ORG: none

TITLE: Nonlinearity considerations of diode volt-ampere characteristics in the accurate design of semiconductor switching circuits 25

SOURCE: Avtomatika i telemekhanika, no. 2, 1966, 129-133

TOPIC TAGS: volt ampere characteristic, diode, semiconductor diode, switching circuit, logic element

ABSTRACT: The authors use the example of the calculation of a logic element of a number in an arithmetic unit with a prescribed binary number to determine the need to consider the nonlinearity of the volt-ampere characteristic of diodes. A procedure for accurate calculations is given. According to the present authors, the work of W. A. Evans (Tolerancing the Transistor NOR Circuit, Electr. Engng., v. 35, No. 428, 1963) is the foreign work that is the closest to the present work in character. The logic element is constructed on a semiconductor triode, operating in a switching circuit, and semiconductor diodes with

Card 1/2

UDC: 681.142.67

L 21981-66

ACC NR: AP6007869

nonlinear volt-ampere characteristics. The calculation of this element employing the piecewise-linear approximation of the diode volt-ampere characteristics produces results which yield no physical meaning. In the accurate calculation of semiconductor switching circuits in industrial automation with nonlinear elements such as the logic element described, it is expedient to use graph-analytic methods which account for the non-linearity of element volt-ampere characteristics. Orig. art. has: 4 figures and 16 formulas.

SUB CODE: 09 / SUBM DATE: 27Jul65 / ORIG REF: 002 / OTH REF: 004

Card 2/2 nst

Khutorna, V. F.

USSR/ Scientific Organization

Card 1/1 Pub. 124 - 18/28

Authors : Khutorna, V. F., and Potkov, L. L.

Title : At the Institutions of the Academy of Sciences, USSR

Periodical : Vest. AN SSSR 26/1, 85-89, Jan 1956

Abstract : Bulletins are presented on the activities of the Department of Chemical Sciences, Department of Economy, Philosophy and Law and at the Institute of Natural Sciences and Engineering of the Academy of Sciences, USSR.

Institution :

Submitted :

KHUTORMA, V.F.

Measuring labor productivity in industry (coordinating conference
at the Institute of Economics). Vest. AN SSSR 26 no.9:113-116 S
'56. (MLRA 9:11)

(Labor productivity)

PASHKOV, A.I.; KARATAYEV, N.K., doktor ekon.nauk; POLYANSKIY, F.Ya., doktor istor.nauk; TSAGOLOV, N.A., doktor ekonom.nauk; BEZMAN, R.R., kand.ekonom.nauk; PRIKAZCHIKOVA, Ye.V., kand.ekonom.nauk; SHUKHOV, N.S. Primali uchastiye: KOSHELEVA, Ye.F., mladshiy nauchnyy sotrudnik; KHUTORNA, V.F., mladshiy nauchnyy sotrudnik; CHIZHOVA, L.G., mladshiy nauchnyy sotrudnik; VILENSKAYA, V.S., starshiy nauchno-tekhnicheskoy sotrudnik. ZHUK, I., red.; MOSKVINA, R., tekhn.red.

[History of Russian economic thought] Istorii russkoi ekonomicheskoi mysl'. Pod red. A.I.Pashkova i N.A.TSagolova. Moskva, Izd-vo sotsial'no-ekon.lit-ry. Vol.2. [Epoch of premonopolistic capitalism] Epokha domonopolisticheskogo kapitalizma. Pt.2. 1960. 676 p.
(MIRA 13:11)

1. Akademiya nauk SSSR. Institut ekonomiki. 2. Chlen-korrespondent AN SSSR (for Pashkov). 3. Institut ekonomiki AN SSSR (for Kosheleva, Khutorna, Chizhova).

(Economics)

KHUTORNAYA, Yu. I.

USSR/Cultivated Plants - Grains.

L-2

Abs Jour : Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69222

Author : Khutornaya, Yu. I.

Inst :

Title : Specimen Testing of Corn at the Novosibirsk State Selection Station.

Orig Pub : Tr. Novosibir. s.-kh. in-ta, 1956, 10, 133-140

Abstract : Results of specimen testings are stated on 7 specimens of corn under conditions of a moist and relatively cold 1954 and exceptionally warm 1955. Quick ripening Siberian specimens "red Siberian" and others, even though they had given in both years a good crop of buds of waxen ripeness, nonetheless significantly yielded to slower-ripening specimens in content of green mass. The later-ripening specimens Kabardinka, Sterling and others yield the greatest crop of green mass, but form almost no buds. In accordance with the results of

Card 1/2

GARKUSHA, G.A.; KHUTORNENKO, G.A.

Synthesis of 5-hydroxy- γ -pyrone-2-carboxylic acid and 3-hydroxy- γ -
pyrone. Zhur. ob. khim. 31 no.1:123-126 Ja '61. (MIRA 14:1)
(Pyranone) (Pyranecarboxylic acid)

GARKUSHA, G.A.; KHUTORNENKO, G.A.

Hydroxy derivatives of β -pyrone. Part 4: Production of esters
of 5-hydroxy- γ -pyran-2-carboxylic (comenic) acid. Zhur.ob.
khim. 31 no.8:2573-2577 Ag '61. (MIRA 14:8)
(Pyrancarboxylic acid)

Khutornoy, P.S.

BABENKO, S.F., gornyy inzhener; KOLOBEDYAN, G.M., gornyy inzhener;
KHUTORNOY, P.S., gornyy inzhener.

Fast PR-20 and PR-23 hammer drills. Gor. zhur. no.4:3-6 Ap '57.
(MLRA 10:5)

1. Zavod "Kommunist."
(Rock drills)

KHUTORNOY P.S.

127-58-1-28/28

AUTHORS: Osmolovskiy, V.V. and Begagoyen, I.A., Dotsents of the Krivoy Rog Ore-Mining Institute; Babenko, S.F. and Khutor-
noy, P.S., Mining Engineers from the Plant "Kommunist"

TITLE: Improve the Utilization and Repair of Mining Equipment
(Uluchshit' ekspluatatsiyu i remont zaboynogo oborudovaniya)
Letter to Editorial Board (Pis'mo v redaktsiyu)

PERIODICAL: Gornyy Zhurnal, 1958, Nr 1, pp 79-80 (USSR)

ABSTRACT: Recently, the ore mines of the Krivoy Rog basin have been equipped with various types of mining machinery, which created the pre-requisite for a considerably rise in labor efficiency. However, these opportunities have not been fully utilized. The low indices of equipment utilization are explained by reasons of technical and organizational character. The authors of the letter propose a number of measures to improve the utilization, one of which is as follows: to convert the mines of the Krivoy Rog basin to a discontinuous regime of operation and assign special shifts or days for repair and preparatory work.

Card 1/2

Improve the Utilization and Repair (cont.)

127-58-1-28/28

ASSOCIATION: Krivorozhskiy gornorudnyy institut (Krivoy Rog Ore-mining Institute), Zavod "Kommunist" ("Kommunist" Works)

AVAILABLE: Library of Congress

1. Mining equipment-Maintenance

Card 2/2

USCOMM-DC-54809

OSMOLOVSKIY, V.V., dots.; BEGAGOYEN, I.A., dots.; BABENKO, S.F., inzh.;
KHUTORNOY, P.S., inzh.

Operation and repair of mining equipment in Krivoy Rog Basin mines.
Izv.vys.ucheb.zav.; gor.zhur. no.5:41-45 ' 58. (MIRA 12:1)

1. Krivorozhskiy gornorudnyy institut.
(Krivoy Rog--Mining machinery--Maintenance and repair)

KHUTORNOY, P.S.

Practical system of supplying mines with mining equipment and
spare parts. Gor. zhur. no.3:41-45 Mr '61. (MIRA 14:3)

1. Zamestitel' glavnogo inzhenera Krivorozhskogo zavoda "Kommunist".
(Mining machinery—Equipment and supplies)

KHUTORNOY, P.S.

Relation between the degree of clearance between the basic parts of
rock drills and their operation. Gor.zhur. no.5:50-53 My '61.
(MIRA 14:6)

1. Zamestitel' glavnogo inzhenera zavoda "Kommunist," Krivoy Rog.
(Rock drills)

3
KHUTORNOY, Petr Semenovich; FEYGAN, L.M., otv. red.; ABARBARCHUK,
F.I., red. izd-va; OVSEYENKO, V.G., tekhn. red.

[Guaranteed system of maintaining rock drills]Garantiinaiia
sistema tekhnicheskogo obsluzhivaniia perforatorov. Mo-
skva, Gosgortekhzdat, 1962. 71 p. (MIRA 15:10)
(Rock drills—Maintenance and repair)

KHUTORNOY, P.S., Inzh.

Use and service life of rock drills. Ger.zhur. no.8:31-33 Ag '65.
(MIRA 18:10)

SIMAKOV, S.N.; KLEYNBURG, V.G.; VOROB'YEV, A.A.; ZAPUDSKAYA, M.A.;
NARIZHNAIA, V.Ye.; POYARKOVA, Z.N.; KHUTOBOY, A.M.; VASILENKO,
V.K., red.; DAYEV, G.A., vedushchiy red.; GENNAD'YEVA, I.M.,
tekhn. red.

[Geological structure and oil potential of Fergana] Geologicheskoe
stroenie i neftemosnost' Fergany. Leningrad. Gos. nauchn. tekhn.
izd-vo neft. i gorno-tiplivnoi lit-ry, 1957. 605 p. (Leningrad.
Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologo-rasvedoch-
nyi institut. Trudy, no.110). (MIRA 11:6)
(Fergana--Petroleum geology)

KHUTOROV, A.M.

Formation of secondary oil pools in the Fergana Depression. Geol.
nefti 2 no.7:34-41 Jl '58. (MIRA 11:8)

1. Ferganskiy neftyanoy kombinat.
(Fergana—Petroleum geology)

KHUTOROV, A.M.

Outlook for oil and gas prospecting in the Fergana Valley.
Sov.geol. 2 no.10:98-112 0 '59. (MIRA 13:4)

1. Ferganskiy neftyanoy kombinat.
(Fergana Valley--Petroleum geology)
(Fergana Valley--Gas, Natural--Geology)

ACC NR: AR7008640

SOURCE CODE: UR/0372/66/000/012/V019/V020

AUTHOR: Vatollo, V. V.; Peskov, Ye. P.; Khutorovskiy, Z. N.

TITLE: Some recurrent schemes for estimation of parameters in problems of optimum linear filtration

SOURCE: Ref. zh. Kibernetika, Abs. 12V110

REF SOURCE: Sb. 2-ya Vses. konferentsiya po teorii kodir. i yeye prilozh. Sekts. 5. Ch. 2. M., b. g. 11-19

TOPIC TAGS: Markov process, ~~optimal automatic control, filtration~~ LINEAR SYSTEM, VECTOR FUNCTION, MATRIX FUNCTION, PARAMETRIC EQUATION

ABSTRACT: The authors consider the regression scheme

$$x_n = F_n a + \xi_n,$$

where F_n is a known matrix of order $n \times s$ and rank s , a is the vector (with s components) of the unknown parameters, ξ_n is the vector (with n components) of random quantities with $\partial u_v = 0$ and correlation matrix $M\xi_n \cdot \xi_n^* = K_n$ of rank n . The problem of representation of an estimate

$$\hat{a}_n = (F_n^* K_n^{-1} F_n)^{-1} F_n^* K_n^{-1} x_n$$

Card 1/2

UDC: 519.281

ACC NR: AR7008640

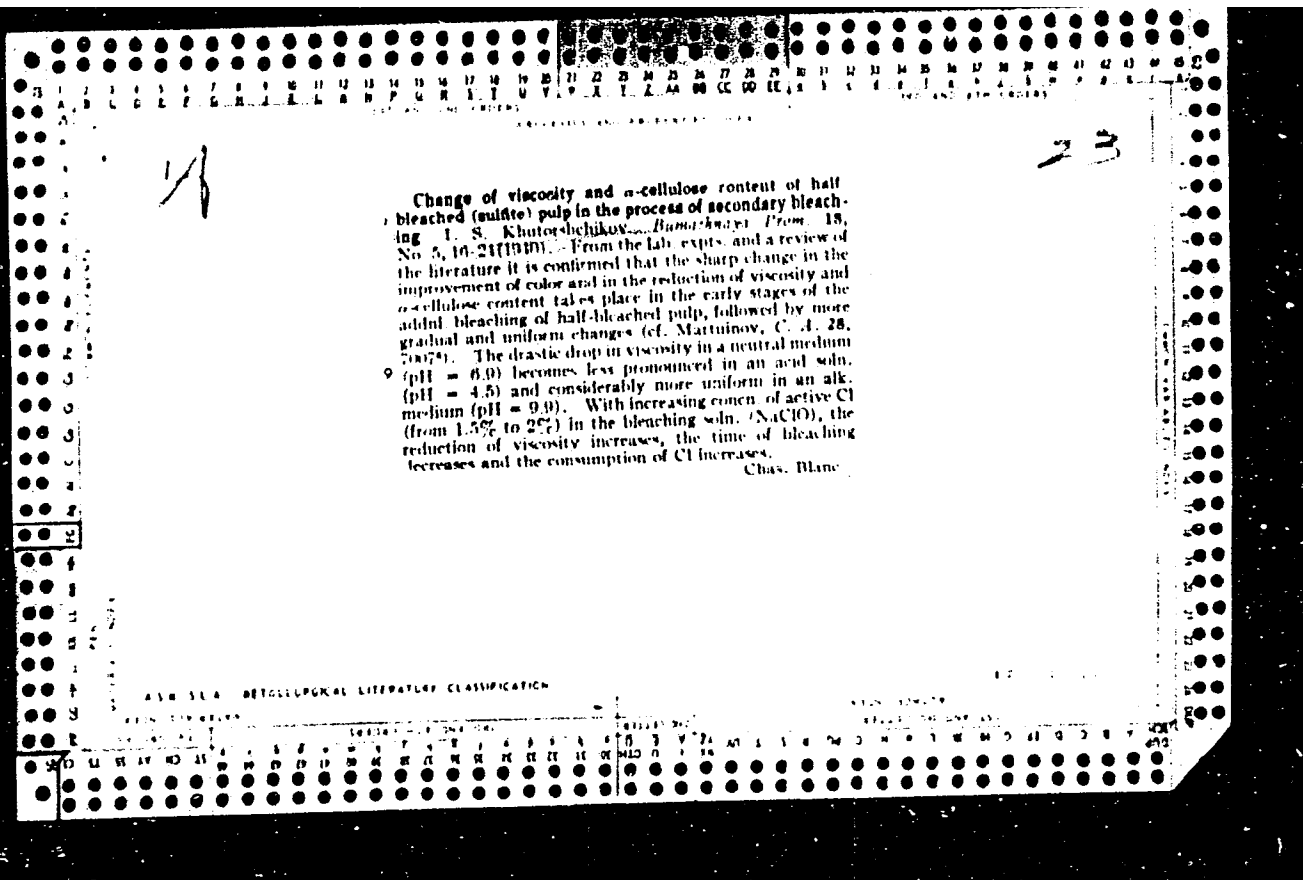
of the vector a in the form

$$A_n = p_{1n}T_{1n}(x_n) + \dots + p_{rn}T_{rn}(x_n) \quad (1)$$

is studied, where p_{1n}, \dots, p_{rn} are independent of observations x_n . Three types of conditions are given which may be imposed on the random vector ξ_n to give a simple representation of form (1). For instance, in the case where the component $y_1, y_2, \dots, y_n, y_{n+1}$ of the vector x_{n+1} form a Markov chain, the estimate A_{n+1} may be expressed in terms of the functions A_n, y_n, y_{n+1} of observations x_{n+1} . A. Dorogovtsev. [Translation of abstract]

SUB CODE: 12

Card 2/2



COMMON ELEMENTS																										COMMON VARIABLE METALS																									
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AV	AW	AX	AY	AZ	
<p style="text-align: center;">1ST AND 2ND COLUMNS PROCESSING AND PROPERTY INDEX 3RD AND 4TH COLUMNS</p>																																																			
<div style="float: left; width: 10%; font-size: 2em; margin-top: 20px;">CA</div> <div style="float: right; width: 10%; text-align: right; margin-top: 20px;">23</div> <div style="clear: both;"></div> <p>The effect of the concentration of H ions on bleached sulfite pulp. I. B. Khutorshchikov, <i>Dumskaya Press</i>, 1940, No. 11, 24-8; <i>Khim. Referat. Zhur.</i> 4, No. 7-8, 113(1941).—The content of α-cellulose of sulfite pulp and the viscosity in Schweizer reagent are lowest when pH of the bleaching soda is 6-7. The amt. of Cl used is smallest at pH 9.5. The time required for bleaching is shortest in neutral media. This is attributed to the greater stability of chlorogenic acid in an acid medium. W. R. Hean</p>																																																			
<p style="text-align: center;">ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			
<div style="display: flex; justify-content: space-between;"> 1000000000 1000000000 1000000000 </div>																																																			

CA

23

Variations in the pH during the electrometric titration of bleaching solutions in bleaching of cellulose. I. S. Khutsochikhov, *Khimushchinya* *Prim.* 18, No. 7, 30* (1940). The buffer properties of bleaching solns. at various pH values were investigated by conducting electrometric titrations of Ca hypochlorite solns. with N HCl and measuring the pH. The buffer characteristic (P) was calcd. from $P = 10 \cdot 2/\Delta pH$, where Δ is the N HCl added to the bleaching soln. and ΔpH is change in acidity of soln. after the addn. of HCl. The value of P depended upon the content of active Cl and the pH. Upon the addn. of NaOH to the soln. having a pH 12.4-11.5 there was observed a considerable buffer effect which was probably due to the formation of undissoc. hydrate of CaO. At a pH 11.5-8 the solns. were weak buffers in all cases. At a pH 8-6.5 P was governed by the content of weak HOCl and its salt in the bleaching soln. The value of P at pH 6.5-6 increases with increasing concn. of hypochlorite. At a pH 6.5-3.5 the value of P is insignificant, but at a pH 3.5-2.5 it increases again. The nature of pH variations during the bleaching depends chiefly on the buffering qualities of the bleaching solns. For a low value of P the pH decreases sharply but for a considerable value of P the pH variations are insignificant. B. Z. K.

METALLURGICAL LITERATURE CLASSIFICATION

13

ca

The composition of bleach solutions. I. S. Khutorshchi-
kov. *Bumash. Prom.* 26, No. 1, 8-12 (1951).—The compn.
of bleach solns. with respect to pH was studied. The max.
concn. of HClO is at pH 5.5 in a bleach soln. made by add-
ing Cl to KOH soln., and Cl₂ is present in solns. of hypo-
chlorites. The conclusions from the study were that the
active Cl was in the form of HClO, ClO⁻, or mol. Cl; the
efficacy of the soln. is relative to the pH, concn. of active
Cl, temp., etc.; and the amt. of Cl₂ present depends only
on the pH of the soln. Paul W. Howerton

KHUTORSHCHIKOV, I.S.

(Cand. Tech. Sci.)

Chemical Abst.
Vol. 48
Apr. 10, 1954
Cellulose and Paper

Kraft cooking of birch. I. S. Khutorshchikov. *Dumensk. Prom.* 28, No. 12, 23-6 (1963).—The kraft cooking of several wood species was studied. Chips (30 mm. long, 2-4 mm. thick) (400 g., bone-dry basis, 15% H₂O) from a 63-year-old birch (I) (cellulose 47.6%, lignin (II) 23.1%, pentosans (III) 22.0%, extractives (IV) 1.69%, and ash 0.5%, all based on bone-dry wood) were cooked with 1.4 l. white liquor. The pulp was washed, squeezed to 30-5% H₂O, air-dried, beaten to 60° Schopper-Riegler (S. R.) in a ball mill, and handsheets (100 g./sq. in.) were prep. and tested. At 25.5% sulfidity (V) and 2.5 hrs. to 170° and 2 hrs. at 170°, % pulp yield (VI), % screenings (VII), pulp hardness (VIII) (° Björkman), % III in pulp, breaking length (m.) (IX), double folds (X), and burst (kg./sq. cm.) (XI) were for 30% active alkali (XII): 30.0, 43.2, —, 48, 11.20, 6330, 1025, and 4.16; 25.5, 44.4, —, 51, 11.30, 6290, 1430, and 4.98; 21.0, 60.0, —, 88, 11.45, 10550, 2090, and 7.24; and 18.8, 64.0, 1.9, 9.6, 11.65, 11010, 2440, and 8.08; for 14.5% XII: VII was 100%; for 21% XII: VI, VIII, % III in pulp, IX, and X were 40.8, 85, 11.5, 5210, and 2005 at 20% V; 62.0, 89, 11.6, 9545, and 2050 at 30% V; and 61.7, 85, 11.6, 9040, and 2170 at 40% V. For 21% XII at 25.5% V and 2.5 hrs. to 170° and 5 hrs. at 170° VI, VII, VIII, % III in pulp, IX, X, and XI were 62.0, —, 70, 11.4, 9900, 1760, and 7.8; for 4 hrs. at 170° 62.0, 0.35, 82, 11.5, 10900, 2290, and 8.0; for 3 hrs. at 170° 51.2, 0.70, 89, 11.6, 11230, 2395, and 8.4. Kraft pulp was also prep. from aspen (XIII), poplar (XIV), and spruce (XV). The age (years), % II, % IV, % III, and ash were for XIII 38, 22.8, 1.61, 21.6 and —; for XIV —, 21.6, 1.37, 21.4 and 0.48; and for XV 78, 23.8, 1.78, 11.4, and 0.42. When cooked under identical conditions (not given), the VI, VIII, % III in pulp, IX, X, and XI were 61.8, 96, 11.7, 10760, 2295, and 6.85 for I, 48.2, 62, 11.6, 9190, 1645, and 5.2 for XIII, and 60.7, 123, 9.4, 10070, 5340, and 6.75 for XV; VI and VIII for XIV were 40.0 and 64. John Lake Keays

Wood Technology Acad. in S. M. Krasov

KHUTORSHCHIKOV, I.S., dots.

Physical properties and chemical composition of Siberian
larch wood. Bum.prom. 34 no.10:9-10 0 '59. (MIRA 13:2)

1. Lesotekhnicheskaya akademiya im.S.M.Kirova.
(Larch) (Woodpulp)

ALEKSANDROVSKIY, B.P.; VOROB'YEV, M.F.; DEDUSHENKO, V.I.; MAMOLAT, A.S.;
RICHENKO, S.G.; KHUTORSKAYA, V.D.; YASHCHENKO, T.T.

Clinical X-ray and functional characteristics of patients with
a solitary lung 9-10 years after pneumonectomy. Probl. tub.
no.2:23-28 '65. (MIRA 18:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut tuberkuleza
i grudnoy khirurgii imeni akademika F.G.Yanovskogo (direktor -
dotsent A.S.Mamolat), Kiyev.

PESHKOVSKAYA, Mariya Mikhovna; ANDREYEV, Mikhail Vikent'iyevich;
KALMYKOVA, Nataliya Borisovna; MALINOVA, Ruzhka Dasydovna;
SASHINA, Yelena Konstantinovna; KUTPOVSKAYA, Ye. S., rel.

[Technical and economic calculations in enterprises of the
chemical industry] Tekhnicheskaya i ekonomicheskaya raschety na pred-
priyatiakh khimicheskoy promyshlennosti. Moskva, Vysshaya
shkola, 1965. 280 p. (MIRA 18:12)

KHUTORTSOV, I. I.: Master Agric Sci (diss) -- "The development of erosion processes and methods of liquidating them on concentrated cuttings in the mountainous conditions of the basin of the river Uda, Buryat ASSR". Moscow, 1958. 21 pp (Acad Sci USSR, Inst of Forestry), 150 copies (KL, No 6, 1959, 139)

MIKHAL'CHENKO, Mikhail Grigor'yevich, inzh.; OKUNEV, Nikolay
Aleksandrovich, inzh.; KHUTORYAN, Naum Benitsianovich, inzh.;
SMIRNOV, N.A., red.; FOMICHEV, A.G., red. izd-va; BELOGUROVA,
I.A., tekhn. red.

[Comprehensive mechanization and automation of plants manufacturing building materials of rock, gravel, and sand] Kompleksnaia mekhanizatsiia i avtomatizatsiia na predpriiatiiakh nerudnykh stroitel'nykh materialov; stenogramma lektsii. Leningrad, 1962.
30 p. (MIRA 15:3)

(Automation) (Building materials)

KHUTORYAN, R.A.; RUBINSHTEYN, E.L.

Atmospheric pollution in Kirovograd and measures for reducing it.
Gig.i san. 26 no.12:86 D '61. (MIRA 15:9)

1. Iz Korovogradskoy oblastnoy sanitarno-epidemiologicheskoy
stantsii.

(KIROVOGRAD--AIR--POLLUTION)

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